

EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	51	((ishizawa-shigeru\$.in. saeki-hiroaki\$.in.) and vacuum\$4	US-PGPUB; USPAT	OR	ON	2009/07/07 16:26
L2	971	vacuum.cfm. and (transfer\$4 transport\$4 convey\$4).cfm. and (arm robot hand mechanism member).cfm. and (rail track).cfm.	US-PGPUB; USPAT	OR	ON	2009/07/07 17:21
L3	1	10/500,102 and (wafer substrate semiconductor)	US-PGPUB; USPAT	OR	ON	2009/07/07 17:31
L4	426	vacuum.cfm. and (transfer\$4 transport\$4 convey\$4).cfm. and (arm robot hand mechanism member).cfm. and (rail track).cfm. and (wafer substrate disc disk semiconductor)	US-PGPUB; USPAT	OR	ON	2009/07/07 17:31
S7	3303	((414/935,939) or (118/719) or (156/345.31) or (156/345.32) or (204/298.23,298.25,298.27)).CQLS.	US-PGPUB; USPAT	OR	OFF	2007/11/19 14:48
S8	3303	((414/935,939) or (118/719) or (156/345.31) or (156/345.32) or (204/298.23,298.25,298.27)).CQLS.	US-PGPUB; USPAT	OR	OFF	2006/09/22 14:11
S9	73	S8 and ((rail\$3 track\$3) same ((detect\$4 sens\$4 observ\$5 measur\$5) with (position \$3 location\$3)))	US-PGPUB; USPAT	OR	ON	2007/07/30 19:23
S10	41	("5417537").URFN.	USPAT	OR	ON	2006/09/22 14:53
S11	9	("4042128" "4542712" "4624617" "4676884" "4766993" "4779538" "5215420" "5234303" "5284411").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/22 15:18
S12	27	("4714400" "4985722" "5061144" "5177514" "5202716" "5297910" "5339128" "5364222" "5418382" "5430271" "5442416" "5466945" "5565034" "5571325" "5575376" "5602431" "5626675" "5639301" "5664254" "5762745" "5796486" "5825470" "5937223" "6126703" "6139245" "6146083" "6168667").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/22 15:24
S13	0	("6533531").URFN.	USPAT	OR	ON	2006/09/22 15:25
S14	0	("6533531").URFN.	USPAT	OR	ON	2006/09/22 15:33
S15	11	"1146548"	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2006/09/22 15:36
S16	1	("7025554").FN.	US-PGPUB; USPAT	OR	OFF	2006/09/22 15:36
S17	13	("20020006323" "20040117059" "20050220577" "4483651" "5695564" "5846328" "5855726" "5882165" "6079927" "6235634" "6257827" "6540869" "6729824").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2006/09/22 15:36

S18	22	("4483651").URPN.	USPAT	OR	ON	2006/09/22 15:44
S19	1	("5417537").PN.	US-PGRUB; USPAT	OR	OFF	2006/09/22 15:44
S20	43	("6235634").URPN.	USPAT	OR	ON	2006/09/22 15:48
S21	261	["20020001929" "2517719" "2525886" "3744660" "3890176" "3900551" "3968885" "4029517" "4091643" "4219333" "4245154" "4341592" "4355937" "4367140" "4406596" "4422651" "4474199" "4475993" "4522788" "4549467" "4592306" "4601181" "4626509" "4670126" "4682937" "4693777" "4749440" "4778356" "4788043" "4789077" "4823976" "4825808" "4827867" "4838476" "4865061" "4877530" "4879004" "4879431" "4917556" "4923828" "4924892" "4933404" "4944837" "4951601" "4960140" "4983223" "5011542" "5013366" "5044871" "5062770" "5068040" "5071485" "5105556" "5143103" "5158704" "5167716" "5169296" "5169408" "5174917" "5185058" "5185296" "5186718" "5188515" "5190373" "5191993" "5193560" "5195878" "5201960" "5213485" "5213619" "5215592" "5217043" "5221019" "5222876" "5224504" "5225173" "5236602" "5236669" "5237824" "5238671" "5240390" "5243821" "5246500" "5250078" "5251776" "5261965" "5266205" "5267455" "5269815" "5274129" "5280693" "5285352" "5288333" "5290361" "5294261" "5298032" "5304515" "5306350" "5312882" "5313965" "5314574" "5316591" "5328722" "5334332" "5334493" "5337446" "5339844" "5352327" "5355901" "5356538" "5364497" "5368171" "5370740" "5370741" "5370742" "5377705" "5401322" "5403621" "5403665" "5404894" "5412958" "5417768" "5433334" "5447294").PN. OR ("5456759" "5470393" "5474812" "5482564" "5486212" "5494526" "5500081" "5501761" "5503176" "5505219" "5509431" "5514220" "5522938" "5526834" "5533538" "5547774" "5550211" "5571330" "5580846" "5589082" "5589105" "5589224" "5621982" "5629918" "5632847" "5635463" "5637151" "5641887" "5644855" "5649809" "5656097" "5665527" "5669251" "5672204" "5676705" "5679169" "5679171" "5683473" "5683977" "5688879" "5700379" "5702228" "5706319" "5726211" "5730874" "5739223" "5746008" "5783082" "5797719" "5798126" "5798438" "5804607"	US-PGRUB; USPAT; USOCR	OR	ON	2006/09/22 15:48

		"5817178" "5866005" "5868856" "5868862" "5872257" "5873948" "5881577" "5882165" "5888050" "5898727" "5900107" "5900354" "5904737" "5908510" "5928389" "5932100" "5934856" "5934991" "5944996" "5955140" "5965025" "5976264" "5979306" "5980648" "5981399" "5989342" "6005226" "6017820" "6024801" "6029371" "6035871" "6037277" "6053348" "6056008" "6067728" "6077053" "6077321" "6082150" "6085935" "6097015" "6110232" "6114044" "6128830" "6145519" "6149828" "6159295" "6164297" "6186722" "6200943" "6203582" "6216364" "6224774" "6228563" "6228826" "6235634" "6239038" "6241825" "6242165" "6244121" "6251250" "6277753" "6286231" "6305677" "6334266" "6344174" "6388317" "6389677" "6418956" "6436824" "6454519" "6454945" "6464790" "6508259").PN. OR ("6521466" "6541278" "6546946" "6550484" "6558475" "6561213" "6561220" "6561481" "6561767" "6564826").PN.				
S22	1	("5417537").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/05 09:11
S23	1	("6863485").PN.	US-PGPUB; USPAT	OR	OFF	2007/02/05 09:11
S24	2	"2000150618"	EPO; JPO; DERWENT	OR	ON	2007/02/05 10:00
S25	85	ishizawa-shigeru.in. saeki-hiroaki.in.	US-PGPUB; USPAT	OR	ON	2007/11/19 15:15
S26	66	((ishizawa-shigeru.in. saeki-hiroaki.in.) and (sens\$4 detect\$4)	US-PGPUB; USPAT	OR	ON	2007/02/05 10:00
S27	37	((ishizawa-shigeru.in. saeki-hiroaki.in.) and (sens\$4 detect\$4) with position)	US-PGPUB; USPAT	OR	ON	2007/02/05 10:01
S28	26	(US-20050087300-\$).did. or (US-5256204-\$ or US-5485910-\$ or US-6863485-\$ or US-4824309-\$ or US-5284411-\$ or US- 6540869-\$ or US-5695564-\$ or US- 7025554-\$ or US-4151034-\$ or US- 6471459-\$ or US-4483651-\$ or US- 4185585-\$ or US-6533531-\$ or US- 6979168-\$ or US-6676365-\$ or US- 5417537-\$ or US-4722298-\$ or US- 6235634-\$ or US-6729824-\$ or US- 4624617-\$ or US-6736149-\$ or US- 6679671-\$).did. or (EP-1146548-\$).did. or (JP-2000150618-\$).did. or (WO- 200030156-\$).did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/14 14:22
S29	3363	(216/96,100,108.ccls. 252/79.1-79.2.ccls.)	US-PGPUB; USPAT	OR	ON	2007/02/14 13:12
S30	319	(acid\$3 with (hydrochloric "hcl")) same (acid\$3 with (nitric "hno.sub.3")) same (("cupric chloride" "cupric sulfate" "cupric oxide") ((cupric copper) with ion))	US-PGPUB; USPAT	OR	ON	2007/02/14 13:18
S31	11862	etch\$3 with (nickel chromium palladium)	US-PGPUB; USPAT	OR	ON	2007/02/14 13:19

S32	32	S30 and S31	US-PGPUB; USPAT	OR	ON	2007/02/14 13:19
S33	20	S30 and S31 and etchant	US-PGPUB; USPAT	OR	ON	2007/02/14 13:19
S34	6414	156/345.\$,ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/02/14 15:14
S35	1	("4766026").FN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 15:57
S36	1	("6528394").FN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 16:12
S37	5	((("5534751") or ("5998932") or ("6176919") or ("6562189") or ("6667340"))).FN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 16:32
S38	4	((("20040135175") or ("20050148121") or ("20050180187") or ("20050250308"))).FN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 16:35
S39	3	((("20050135181") or ("20030116790") or ("6838773"))).FN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 17:03
S40	6	((("3012918") or ("3153683") or ("3153684") or ("3255034") or ("5891967") or ("6635334"))).FN.	US-PGPUB; USPAT	OR	OFF	2007/02/14 17:04
S41	42	("5417537").URFN.	USPAT	OR	ON	2007/03/30 13:40
S42	23	("4483651").URFN.	USPAT	OR	ON	2007/07/30 16:43
S43	26	((US-20050087300-\$.did. or (US-4483651- \$ or US-6533531-\$ or US-6736149-\$ or US-6676365-\$ or US-5485910-\$ or US- 6471459-\$ or US-6540869-\$ or US- 6679671-\$ or US-6979168-\$ or US- 6863485-\$ or US-5284411-\$ or US- 7025554-\$ or US-6235634-\$ or US- 4185585-\$ or US-6729824-\$ or US- 4824309-\$ or US-5417537-\$ or US- 4722298-\$ or US-4151034-\$ or US- 4624617-\$ or US-5256204-\$ or US- 5695564-\$.did. or (EP-1146548-\$.did. or JP-2000150618-\$.did. or (WO- 20030156-\$.did.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/07/30 20:15
S44	9	("4624617" "5002455" "5417537" "5442416" "5844662" "6053687" "6091498" "6230721" "6235634").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 17:05
S45	11	("3946484" "3946931" "4584045" "4592306" "4643629" "4722298" "4985722" "5015177" "5061144" "5202716" "5339128").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 17:07
S46	22	("3584847" "4483651" "4664578" "4701251" "4705951" "4722298" "4825808" "4851018" "4852516" "5024570" "5110249" "5139459" "5163832" "5178639" "5234303" "5364219" "5442416" "5443346" "5658114" "5700127" "5846328" "5863170").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 17:09
S47	13	("2730987" "4500407" "4722298" "4981408" "5024570" "5047130" "5076205" "5288329" "5377816" "5379212" "5651868" "5695564").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 17:42

S48	14	("6053687").URFN.	USPAT	OR	ON	2007/07/30 18:45
S49	23	("3812947" "4178113" "5382127" "5417537" "5443346" "5536128" "5658115" "5855465" "5976199" "6149367" "6282459" "6413356" "6449522" "6473996" "6519502" "6562094" "6568896" "6599763" "6663340" "6722840" "6746198" "6758647" "6848882").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 19:02
S50	0	("6863485").URFN.	USPAT	OR	ON	2007/07/30 19:21
S51	0	("6863485").URFN.	USPAT	OR	ON	2007/07/30 19:22
S52	9	("4624617" "5002455" "5417537" "5442416" "5844662" "6053687" "6091498" "6230721" "6235634").FN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/07/30 19:22
S53	3512	((414/935,939) or (118/719) or (156/345.31) or (156/345.32) or (204/298.23,298.25,298.27)).COLS	US-PGPUB; USPAT	OR	OFF	2007/07/30 19:23
S54	704	S53 and (rail\$3 track\$3) and vacuum	US-PGPUB; USPAT	OR	ON	2007/07/30 19:23
S55	658	S53 and (rail\$3 track\$3) and vacuum and (elevat\$4 lift\$4 rais\$4 ris\$4 vertical\$4)	US-PGPUB; USPAT	OR	ON	2007/07/30 19:40
S56	98	S53 and ((rail\$3 track\$3) same vacuum same (elevat\$4 lift\$4 rais\$4 ris\$4 vertical \$4))	US-PGPUB; USPAT	OR	ON	2007/07/30 19:24
S57	24	("3641973").URFN.	USPAT	OR	ON	2007/07/30 19:29
S58	288	S53 and ((rail\$3 track\$3 beam) same vacuum) and ((elevat\$4 lift\$4 rais\$4 ris\$4 vertical\$4) with (support\$4 hold\$4 table susceptor chuck hand arm))	US-PGPUB; USPAT	OR	ON	2007/07/30 20:10
S59	198	S58 not S56	US-PGPUB; USPAT	OR	ON	2007/07/30 19:43
S60	34	("4681773").URFN.	USPAT	OR	ON	2007/07/30 19:53
S61	38	("3656454").URFN.	USPAT	OR	ON	2007/07/30 20:09
S62	31	118/718.cds. and ((rail\$3 track\$3 beam) same vacuum) and ((elevat\$4 lift\$4 rais\$4 ris\$4 vertical\$4) with (support\$4 hold\$4 table susceptor chuck hand arm))	US-PGPUB; USPAT	OR	ON	2007/07/30 20:10
S63	2615	((156/345.51) or (156/345.54) or (118/728) or (118/729)).COLS	US-PGPUB; USPAT	OR	OFF	2007/07/30 20:16
S64	5680	S63 S63	US-PGPUB; USPAT	OR	ON	2007/07/30 20:16
S65	447	S63 and S63	US-PGPUB; USPAT	OR	ON	2007/07/30 20:16
S66	211	S63 and S63 and (rail\$3 track\$3 beam)	US-PGPUB; USPAT	OR	ON	2007/07/30 20:16
S67	144	S66 not (S69 S56)	US-PGPUB; USPAT	OR	ON	2007/07/30 20:17
S68	0	("2001/0050224").URFN.	USPAT	OR	ON	2007/07/30 20:53

S69	0	("2001/0050224"). URP.N.	USPAT	OR	ON	2007/07/30 20:53
S70	1	"11077753"	US-PGPUB, USPAT	OR	ON	2007/07/30 21:10
S71	1	("4981408"). PN.	US-PGPUB, USPAT	OR	OFF	2007/07/31 12:06
S72	1	("20010050224"). PN.	US-PGPUB, USPAT	OR	OFF	2007/07/31 12:18
S73	1	("6290824"). PN.	US-PGPUB, USPAT	OR	OFF	2007/07/31 12:18
S74	1338	(rail\$3 track\$3).clm. and (detect\$4 sens\$4 measur\$4 observ\$4).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (scal\$5).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 14:54
S75	160	(rail\$3 track\$3).clm. and (detect\$4 sens\$4 measur\$4 observ\$4).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (scal\$5).clm. and (wafer substrate semiconductor workpiece).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 14:55
S76	392	(rail\$3 track\$3 beam).clm. and (detect\$4 sens\$4 measur\$4 observ\$4).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (scal\$5).clm. and (wafer substrate semiconductor workpiece).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 15:01
S77	563	(rail\$3 track\$3 beam).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (wafer substrate semiconductor workpiece).clm. and (elevat\$4 rais\$4 raise raised raising raisable raiseable lift\$4).clm. and (vacuum pressure evacuat\$4 exhaust \$4).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 15:09
S78	144	(rail\$3 track\$3 beam).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (wafer substrate semiconductor workpiece).clm. and (elevat\$4 rais\$4 raise raised raising raisable raiseable lift\$4).clm. and (vacuum pressure evacuat\$4 exhaust \$4).clm. and (load\$3).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 15:10
S79	82	(rail\$3 track\$3 beam).clm. and (transfer\$4 convey\$4 translat\$4 carry\$4 carrier move moved moving moveable movable).clm. and (wafer substrate semiconductor workpiece).clm. and (elevat\$4 rais\$4 raise raised raising raisable raiseable lift\$4).clm. and (vacuum pressure evacuat\$4 exhaust \$4).clm. and (cassette container "loup" "smif" pod).clm.	US-PGPUB; USPAT	OR	ON	2007/11/19 15:10
S80	91	ishizawa-shigeru.in. saeki-hiroaki.in.	US-PGPUB, USPAT	OR	ON	2007/11/19 15:15
S81	1	("5686834"). PN.	US-PGPUB, USPAT	OR	OFF	2008/01/23 11:30
S82	1	"07108159"	US-PGPUB, USPAT	OR	ON	2008/03/20 15:03

S83	2	"07108159"	EPO; JPO; DERWENT	OR	ON	2008/03/20 15:03
S84	2	"11270461"	EPO; JPO; DERWENT	OR	ON	2008/03/20 15:12
S85	1	"11270461"	US-PGRUB; USPAT	OR	ON	2008/03/20 15:12
S86	86	118/728.cds. and (focus with ring)	US-PGRUB; USPAT	OR	ON	2008/03/20 15:17
S87	339	118/715-733.cds. and (focus with ring)	US-PGRUB; USPAT	OR	ON	2008/03/20 15:18
S88	479	156/345.\$ cds. and (focus with ring)	US-PGRUB; USPAT	OR	ON	2008/03/20 15:18
S89	0	156/345,914.cds. and (surface with roughness).dm.	US-PGRUB; USPAT	OR	ON	2008/03/20 15:22
S90	0	156/345,914.cds. and (surface with roughness)	US-PGRUB; USPAT	OR	ON	2008/03/20 15:22
S91	10	156/914.cds. and (surface with roughness).dm.	US-PGRUB; USPAT	OR	ON	2008/03/20 15:22
S92	1	("4981408").PN.	US-PGRUB; USPAT	OR	OFF	2008/03/20 15:29
S93	1	("5417537").PN.	US-PGRUB; USPAT	OR	OFF	2008/03/20 16:07
S94	1	("20010050224").PN.	US-PGRUB; USPAT	OR	OFF	2008/03/20 16:21
S95	2	(("4981408") or ("5417537")).PN.	US-PGRUB; USPAT	OR	OFF	2009/02/17 10:04
S96	40	((US-20050087300-\$ or US-20030200927-\$ or US-20010050224-\$ or US-20060015279-\$ or US-20070107845-\$).did. or (US-6471459-\$ or US-6540869-\$ or US-6679671-\$ or US-4151034-\$ or US-4185585-\$ or US-4624617-\$ or US-5256204-\$ or US-7025554-\$ or US-5417537-\$ or US-6676365-\$ or US-6863485-\$ or US-6979168-\$ or US-6533531-\$ or US-6729824-\$ or US-4824309-\$ or US-4722298-\$ or US-5284411-\$ or US-5485910-\$ or US-6235634-\$ or US-5773088-\$ or US-5695564-\$ or US-4701251-\$ or US-4981408-\$ or US-4483651-\$ or US-6736149-\$ or US-3641973-\$).did. or (US-6063248-\$ or US-5474611-\$ or US-4681773-\$ or US-4934315-\$ or US-6290824-\$).did. or (EP-1146548-\$).did. or (JP-2000150618-\$ or JP-07108159-\$).did. or (WO-200030156-\$ or JP-07108159-\$).did.	US-PGRUB; USPAT; EPO; JPO; DERWENT	OR	ON	2009/02/17 10:22
S97	1	S96 and (gap slit) with (communicat\$4))	US-PGRUB; USPAT	OR	ON	2009/02/17 10:23
S98	14	(118/719.cds. 156/345.31.cds. 156/345.32.cds.) and ((guide with (slit gap)) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4))	US-PGRUB; USPAT	OR	ON	2009/02/17 10:44
S99	227	(118/719.cds. 156/345.31.cds. 156/345.32.cds.) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4))	US-PGRUB; USPAT	OR	ON	2009/02/17 11:00

S100	4	((118/719.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) same (rail \$4 track\$4)))	US-PGRUB, USPAT	OR	ON	2009/02/17 11:09
S101	9	((118/715-733.ccls. 156/345.\$ccls.) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) same (rail\$4 track\$4)))	US-PGRUB, USPAT	OR	ON	2009/02/17 11:11
S102	5	S101 not S100	US-PGRUB, USPAT	OR	ON	2009/02/17 11:11
S103	13	((("414"/\$ccls.) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) same (rail \$4 track\$4)))	US-PGRUB; USPAT	OR	ON	2009/02/17 11:12
S104	36	((("4681773").UFPN.	USPAT	OR	ON	2009/02/17 11:23
S105	6	((transfer\$4 transport\$4 convey\$4 carry \$4) with chamber) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) and (rail \$4 track\$4) and (substrate workpiece disk disc semiconductor wafer)	EPO; JPO; DERWENT	OR	ON	2009/02/17 11:32
S106	3	((c23c016\$.ipc. h011021\$.ipc. c23c001\$.ipc.) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) and (rail\$4 track\$4) and (substrate workpiece disk disc semiconductor wafer)	EPO; JPO; DERWENT	OR	ON	2009/02/17 11:35
S107	3	"02081455"	EPO; JPO; DERWENT	OR	ON	2009/02/17 11:38
S108	1047	((transfer\$4 transport\$4 convey\$4 carry \$4) with chamber) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) and (rail \$4 track\$4) and (substrate workpiece disk disc semiconductor wafer)	US-PGRUB; USPAT	OR	ON	2009/02/17 11:39
S109	57	((transfer\$4 transport\$4 convey\$4 carry \$4) with chamber) and ((divid\$4 partition) same (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) same (rail \$4 track\$4) and (substrate workpiece disk disc semiconductor wafer)	US-PGRUB; USPAT	OR	ON	2009/02/17 11:39
S110	27	((118/719.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((plate separat\$4 partition\$4) with (inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) with (particle debris dust particulate dirt)))	US-PGRUB; USPAT	OR	ON	2009/02/17 11:44
S111	23	((118/719.ccls. 156/345.31.ccls. 156/345.32.ccls.) and ((plate separat\$4 partition\$4) with (flow\$4) with (particle debris dust particulate dirt)))	US-PGRUB; USPAT	OR	ON	2009/02/17 12:46
S112	16	S11 not S110	US-PGRUB, USPAT	OR	ON	2009/02/17 12:47
S113	2243	((118/719) or (156/345.31) or (156/345.32)).CCLS	US-PGRUB, USPAT	OR	OFF	2009/02/17 12:52
S114	2881	((156/345.51) or (156/345.54) or (118/728-729)).CCLS	US-PGRUB, USPAT	OR	OFF	2009/02/17 12:53

S115	357	S113 and S114	US-PGPUB; USPAT	OR	ON	2009/02/17 12:54
S116	139	((inert inactive nitrogen purg\$4 exhaust\$4 evacuat\$4 pump\$4) with flow\$4) and S115	US-PGPUB; USPAT	OR	ON	2009/02/17 12:55
S117	9	("20010035132" "20020036065" "20030097987" "20050022737" "4854263" "5685914" "5730801" "6409837" "6695318").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2009/02/17 13:35
S118	1	("20030029564").PN.	US-PGPUB; USPAT	OR	OFF	2009/02/17 13:42
S119	6	("20030029568" "20040060513" "20040089239" "5772770" "6435798" "6508199").PN.	US-PGPUB; USPAT	OR	ON	2009/02/17 13:42
S120	1	("5091217").PN.	US-PGPUB; USPAT	OR	OFF	2009/02/17 14:10
S121	2	((("4981408" or ("5091217"))).PN.	US-PGPUB; USPAT	OR	OFF	2009/06/08 12:25
S122	2	"06100164"	EPO; JPO; DERWENT	OR	ON	2009/06/08 12:28

7/7/09 6:51:12 PM

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